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Attachment to Interview Summary

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OGA-10.02

Replacement Claim Set

72. (New) A cultured tissue construct comprising dermal fibroblast cells embedded in an extracellular matrix, wherein the construct is produced by culturing dermal fibroblast cells seeded onto a membrane, which contains pores that are about 3 microns or less in size, in the presence of a chemically defined matrix production medium that is free of exogenous matrix components and undefined animal organ or tissue extracts under appropriate conditions and for a sufficient period of time. (support: page 9, ll. 12-30, page 10, ll. 1-29, page 11, ll. 25-26)
73. (New) A cultured tissue construct of claim 72, wherein the matrix production medium comprises a nutrient base medium, media components that assist in matrix synthesis, secretion or organization and optional supplements. (page 12, ll. 13-30, page 13, ll. 1-29, page 14, ll. 1-30, page 15, ll. 1-30; page 16, ll. 1-30, page 17, ll. 1-24)
74. (New) A cultured tissue construct of claim 73, wherein the nutrient base medium is selected from the group consisting of: Dulbecco's Modified Eagle Medium (DMEM), Minimal Essential Medium (MEM), M199, RPMI 1640, Iscove's Modified Dulbecco's Medium (EDMEM), Ham's F-12, Ham's F-10, NCTC 109, and NCTC 135. (support: page 12, ll. 21-23 and 26-28)
75. (New) A cultured tissue construct of claim 73, wherein the media components that assist in matrix synthesis, secretion or organization are selected from the group consisting of: ascorbate derivatives, amino acids, neutral polymers, growth factors, transcription factors and inorganic salts.
76. (New) A cultured tissue construct of claim 75, wherein the ascorbate derivative is selected from the group consisting of: sodium ascorbate, ascorbic acid, L-ascorbic acid phosphate magnesium salt n-hydrate.

INFORMATION ONLY

77. (New) A cultured tissue construct of claim 75, wherein the amino acid is selected from the group consisting of: proline, hydroxyproline, glycine and hydroxyglycine.
78. (New) A cultured tissue construct of claim 75, wherein the neutral polymer is selected from the group consisting of: polyethylene glycol (PEG), dextran and polyvinylpyrrolidone (PVP). (support: page 17, ll. 1-2)
79. (New) A cultured tissue construct of claim 75, wherein the growth factor is selected from the group consisting of: epidermal growth factor, progesterone, adenine, transforming growth factor beta 1 and tissue plasminogen activator. (support: page 14, ll. 29-30 and page 15, ll. 23-30)
80. (New) A cultured tissue construct of claim 73, wherein the supplements are selected from the group consisting of: insulin, transferrin, triiodothyronine (T3), ethanolamine, o-phosphoryl-ethanolamine hydrocortisone, selenium, L-glutamine and epidermal growth factor.
81. (New) A cultured tissue construct of claim 72, wherein the culture conditions are a temperature between about 34°C to 38°C, an atmosphere between about 5 to 10 CO₂ and a relative humidity between about 80-90%. (page 17, ll. 25-28)
82. (New) A cultured tissue construct of claim 72, wherein the dermal fibroblasts are derived from human dermis.
83. (New) A cultured tissue construct of claim 82, wherein the human dermis is neonatal foreskins).
84. (New) A cultured tissue construct of claim 72, wherein media exchanges are made every two to three days.

INFORMATION ONLY

85. (New) A cultured tissue construct of claim 72, wherein the pores are in the range of about 0.2 microns to about 1 micron. (page 10, ll. 6)

86. (New) A cultured tissue construct of claim 72, wherein the membrane is comprised of a polycarbonate (page 10, ll. 8)

87. (New) A cultured tissue construct of claim 72, which is at least 30 microns in thickness.